

PATENT
0505-0973P

IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant: ISHIKAWA, Yoshimi et al.
Appl. No.: New Divisional of
SN: 09/651,118 Group: unassigned
Filed: March 5, 2002 Examiner: unassigned
For: DISC BRAKE PISTON SEAL MEMBER AND ITS
MANUFACTURING METHOD

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, DC 20231

March 5, 2002

Sir:

The following preliminary amendments and remarks are respectfully
submitted in connection with the above-identified application.

IN THE SPECIFICATION

Please insert the following paragraph before the first paragraph on page

1.

--CROSS-REFERENCE TO RELATED APPLICATION

The present application is a divisional application under 35 U.S.C. §1.53(b) of the pending Application Serial No. 09/651,118 filed on August 30, 2000, the entire contents thereof are hereby incorporated by reference.--

IN THE CLAIMS

Please **cancel claims 1-10** without prejudice or disclaimer.

Please **add claims 15-20** as follows:

--**15.** The method for manufacturing a disc brake piston seal member according to claim **11**, wherein said friction reducing agent is a plastic film, selected from a group consisting of PTFE, PET, PE, and PP.

16. A method for manufacturing a disc brake piston seal member comprising the following steps:

providing a cylindrical seal material of an indeterminate length, said cylindrical seal material including an inner circumferential surface and an outer circumferential surface;

performing a chemical friction reduction process on the inner circumferential surface of said cylindrical seal material; and

cutting said seal material into ring pieces for manufacturing multiple piston seal members.

17. The method for manufacturing a disc brake piston seal member according to claim **16**, wherein said cylindrical seal material is rubber.

18. The method for manufacturing a disc brake piston seal member according to claim **16**, wherein fluorine atoms or chlorine atoms are chemically combined with the inner surface of the seal member, thus providing the inner circumferential surface with high lubrication, high water repellancy, and non-adhesion characteristics.

19. A method for manufacturing a disc brake piston seal member comprising the following steps:

providing a cylindrical seal material of an indeterminate length, said cylindrical seal material including an inner circumferential surface and an outer circumferential surface; and

cutting said seal material into ring pieces for manufacturing multiple piston seal members.

20. The method for manufacturing a disc brake piston seal member according to claim **19**, wherein said cylindrical seal material is formed of rubber mixed with fluorine, the fluorine acting as a friction reducing agent.—

REMARKS

Claims 11-20 are now pending in the present application.

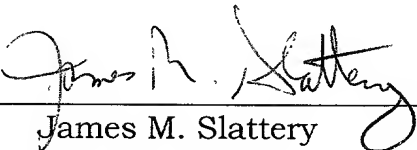
Entry of the above amendments is earnestly solicited. An early and favorable first action on the merits is earnestly solicited.


The Examiner is respectfully requested to contact James M. Slattery

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. § 1.16 or under § 1.17; particularly, extension of time fees.

Very truly yours,

BIRCH, STEWART, KOLASCH & BIRCH, LLP

By: 
James M. Slattery
Reg. No. 28,380


JMS/CTT:ll

0505-0973P

P.O. Box 747
Falls Church, VA 22040-0747
(703) 205-8000

AMENDED ABSTRACT FOR PRELIMINARY AMENDMENT

--ABSTRACT OF THE DISCLOSURE

This invention relates to a method of manufacturing a disc brake piston seal member having a stable a friction coefficient regardless of temperature change. At least an inner circumferential surface of a dust seal member and a brake-gap adjustment seal member, attached to a brake caliper, are coated with a friction reducing agent.--